

INTERNATIONAL SEARCH REPORT

International application No PCT/GB 03/00720	
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/4468 A61K31/453 A61K31/4535 A61K31/4709 A61K31/17 C07D211/58 C07D405/12 C07D409/12 C07D401/12 C07C275/28	
According to International Patent Classification (IPC) or to both national classification and IPC	
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K C07D C07C	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data	
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages
X	US 3 424 761 A (AH ROBINS CO LTD (US)) 28 January 1969 (1969-01-28) cited in the application formula (I), column 1 column 1, line 45 column 2, line 11
Y	WO 00 76512 A (MERCK & CO INC (US)) 21 December 2000 (2000-12-21) cited in the application page 4, line 6 - line 7; claims; examples
Y	EP 0 916 668 A (BANYU PHARMA CO LTD) 19 May 1999 (1999-05-19) cited in the application page 2, paragraph 1; claims; examples --- -/--
1,2,6-9, 11	1-12 1-12
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.	
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family	
Date of the actual completion of the international search 12 May 2003	Date of mailing of the international search report 21/05/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Cortés, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 76973 A (MERCK & CO INC (US)) 21 December 2000 (2000-12-21) cited in the application page 4, line 6 - line 7; claims; examples -----	1-12
Y	SAUNDERS J ET AL: "OPPORTUNITIES FOR NOVEL THERAPEUTIC AGENTS ACTING AT CHEMOKINE RECEPTORS" DRUG DISCOVERY TODAY, ELSEVIER SCIENCE LTD, GB, vol. 4, no. 2, February 1999 (1999-02), pages 80-92, XP000882226 ISSN: 1359-6446 compounds 7 and 16, pages 90 and 91 -----	1-12
A	WO 01 14333 A (ASTRAZENECA UK LTD (GB)) 1 March 2001 (2001-03-01) cited in the application claims; examples -----	1-12
P,A	WO 02 16353 A (CELLTECH R&D LTD (GB)) 28 February 2002 (2002-02-28) cited in the application the whole document -----	1-12

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1, 2, 4-12 (partly)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1, 2, 4-12 (partly)

Present claim set relates to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the 1,4-substituted piperidine derivatives of claim 3, i.e. to compounds of formula (1) wherein m and n are each 1.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3424761	A	28-01-1969	GB 1172033 A	26-11-1969
WO 0076512	A	21-12-2000	AU 5473400 A	02-01-2001
			WO 0076512 A1	21-12-2000
			US 6500844 B1	31-12-2002
EP 0916668	A	19-05-1999	AU 3633997 A	20-02-1998
			EP 0916668 A1	19-05-1999
			US 6140338 A	31-10-2000
			WO 9804554 A1	05-02-1998
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			WO 0076973 A1	21-12-2000
			US 6472410 B1	29-10-2002
WO 0114333	A	01-03-2001	AU 6461600 A	19-03-2001
			EP 1212299 A1	12-06-2002
			WO 0114333 A1	01-03-2001
			JP 2003507456 T	25-02-2003
WO 0216353	A	28-02-2002	AU 7995801 A	04-03-2002
			WO 0216353 A1	28-02-2002